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Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet	1	of	2
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**Complete if Known**

Application Number	09/534,682
Filing Date	March 24, 2000
First Named Inventor	Lloyd Watts
Art Unit	2644
Examiner Name	Devona E. Faulk
Attorney Docket Number	PA2994US

## U. S. PATENT DOCUMENTS

[illegible]

**FOREIGN PATENT DOCUMENTS**

[illegible]

**Examiner  
Signature**

Serena E Zank

<b>Data Considered</b>	<p>1. All data from the 1990-1991 season were included in the analysis.</p> <p>2. Data from the 1991-1992 season were included in the analysis for the following variables:</p> <ul style="list-style-type: none"> <li>• <b>Age:</b> Data were available for 1991-1992 for all age groups.</li> <li>• <b>Gender:</b> Data were available for 1991-1992 for all gender groups.</li> <li>• <b>Marital Status:</b> Data were available for 1991-1992 for all marital status groups.</li> <li>• <b>Education:</b> Data were available for 1991-1992 for all education groups.</li> <li>• <b>Income:</b> Data were available for 1991-1992 for all income groups.</li> <li>• <b>Health Insurance:</b> Data were available for 1991-1992 for all health insurance groups.</li> <li>• <b>Employment:</b> Data were available for 1991-1992 for all employment groups.</li> <li>• <b>Health Status:</b> Data were available for 1991-1992 for all health status groups.</li> <li>• <b>Health Care Use:</b> Data were available for 1991-1992 for all health care use groups.</li> <li>• <b>Health Care Costs:</b> Data were available for 1991-1992 for all health care costs groups.</li> <li>• <b>Health Care Satisfaction:</b> Data were available for 1991-1992 for all health care satisfaction groups.</li> <li>• <b>Health Care Access:</b> Data were available for 1991-1992 for all health care access groups.</li> <li>• <b>Health Care Quality:</b> Data were available for 1991-1992 for all health care quality groups.</li> <li>• <b>Health Care Equity:</b> Data were available for 1991-1992 for all health care equity groups.</li> <li>• <b>Health Care Efficiency:</b> Data were available for 1991-1992 for all health care efficiency groups.</li> <li>• <b>Health Care Effectiveness:</b> Data were available for 1991-1992 for all health care effectiveness groups.</li> <li>• <b>Health Care Safety:</b> Data were available for 1991-1992 for all health care safety groups.</li> <li>• <b>Health Care Reliability:</b> Data were available for 1991-1992 for all health care reliability groups.</li> <li>• <b>Health Care Responsiveness:</b> Data were available for 1991-1992 for all health care responsiveness groups.</li> <li>• <b>Health Care Accountability:</b> Data were available for 1991-1992 for all health care accountability groups.</li> <li>• <b>Health Care Transparency:</b> Data were available for 1991-1992 for all health care transparency groups.</li> <li>• <b>Health Care Integrity:</b> Data were available for 1991-1992 for all health care integrity groups.</li> <li>• <b>Health Care Honesty:</b> Data were available for 1991-1992 for all health care honesty groups.</li> <li>• <b>Health Care Fairness:</b> Data were available for 1991-1992 for all health care fairness groups.</li> <li>• <b>Health Care Justice:</b> Data were available for 1991-1992 for all health care justice groups.</li> <li>• <b>Health Care Equity:</b> Data were available for 1991-1992 for all health care equity groups.</li> <li>• <b>Health Care Efficiency:</b> Data were available for 1991-1992 for all health care efficiency groups.</li> <li>• <b>Health Care Effectiveness:</b> Data were available for 1991-1992 for all health care effectiveness groups.</li> <li>• <b>Health Care Safety:</b> Data were available for 1991-1992 for all health care safety groups.</li> <li>• <b>Health Care Reliability:</b> Data were available for 1991-1992 for all health care reliability groups.</li> <li>• <b>Health Care Responsiveness:</b> Data were available for 1991-1992 for all health care responsiveness groups.</li> <li>• <b>Health Care Accountability:</b> Data were available for 1991-1992 for all health care accountability groups.</li> <li>• <b>Health Care Transparency:</b> Data were available for 1991-1992 for all health care transparency groups.</li> <li>• <b>Health Care Integrity:</b> Data were available for 1991-1992 for all health care integrity groups.</li> <li>• <b>Health Care Honesty:</b> Data were available for 1991-1992 for all health care honesty groups.</li> <li>• <b>Health Care Fairness:</b> Data were available for 1991-1992 for all health care fairness groups.</li> <li>• <b>Health Care Justice:</b> Data were available for 1991-1992 for all health care justice groups.</li> </ul>
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9/29/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	09/534,682		
		Filing Date	March 24, 2000		
		First Named Inventor	Lloyd Watts		
		Art Unit	2644		
		Examiner Name	Devona E. Faulk		
Sheet	2	of	2	Attorney Docket Number	PA2994US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
07		JEONG et al., "Implementation of a New Algorithm Using the STFT with Variable Frequency Resolution for the Time-Frequency Auditory Model," Journal of Audio Eng. Soc., Vol. 47, No. 4, April 1991, pp. 240-251.	
07		Syntrillium Software Corporation, "Cool Edit User's Manual," 1996, pp. 1-74.	
07		WATTS, "Robust Hearing Systems for Intelligent Machines," Applied Neurosystems Corporation, 2001, pp. 1-5.	
07		LIPPMANN, "Speech Recognition by Machines and Humans," Speech Communication 22, 1997, pp. 1-15.	
07		HERMANSKY, "Should Recognizers Have Ears?" in the Proc. ESCA Tutorial and Research Workshop on Robust Speech Recognition for Unknown Communication Channels, France, 1997, pp. 1-10.	

Examiner Signature	Devona E. Faulk	Date Considered	9/29/05
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Lloyd Watts  
APPLICATION NO.: 09/534,682  
FILED: March 24, 2000  
TITLE: Efficient Computation of Log-Frequency-Scale Digital Filter Cascade  
EXAMINER: Devona E. Faulk  
GROUP ART UNIT: 2644  
ATTY.DKT.NO.: PA2994US

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List of Co-Pending Patent Applications That May Be Directed  
Towards Similar Subject Matter

Examiner's Initials	Serial Number	First-Named Inventor	Title	Filing Date
DF	10/177,049	Lloyd Watts	Robust Hearing Systems for Intelligent Machines	June 21, 2002
DF	09/993,442	Lloyd Watts	Editing of Audio Signals	November 13, 2001
DF	10/074,991	Lloyd Watts	Filter Set for Frequency Analysis	February 13, 2002
Examiner's Signature:	<i>Devona E. Faulk</i>			Date 9/29/05